AUTHOR INDEX

Abdel Aliem, S. 282
Adamson, J. 231
Alliney, S. 75
Asalor, H. O. 133
Aucamp, D. C. 238
Bhattacharyya, P. K. 226
Brebbia, C. A. 251
Calo, J. M. 328, 341
Cardou, A. 319
Chang, Y. F. 355
Chua, T. S. 197
Cecot, W. 23
Crotogino, A. 45
Cundiff, W. C. 445
Dasgupta, D. 203
Dew, P. M. 197
Dexter, A. R. 89, 93
Dhatt, G. 319
Dief, A. S. 351
Diersch, H.-J. 305
Du, Q. 15
Durst, F. 101
El-Hawary, H. M. 128
Elimam, A. A. 425
Elmaghraby, S. E. 425
El Salaly, M. 282
Fairweather, G. 265
Frair, L. 271
Gakwaya, A. 319
Ghoniem, S. A. 282
Gospodinov, G. 179
Griffin, O. M. 298
Heron, P. J. 37
Hewitt, J. S. 89, 93
Hirose, S. 397
Hishimura, N. 62
Holz, K. P. 45
Hussien, M. A. 408
Hussein, S. A. 351
Iordanov, V. I. 169
Johnston, R. L. 265
Kawakami, T. 62
Keramidas, G. A. 298
Kitahara, M. 397
Kobayashi, S. 62
Kramer, M. A. 328, 341
Kuroki, T. 383
Lewis, R. W. 391
Limic, N. 53
Malone, R. F. 81
Marszalek, W. 11
Miller, H. P. 313
Milojevic, D. 101
Morgan, K. 391
Mullineaux, N. 37
McCartney, L. N. 243
Nemerow, N. 203
Niwa, Y. 397
O'Carroll, M. J. 261
Onishi, K. 383
Orkisz, J. 23
Owen, A. 116
Patera, R. P. 365
Prochnow, D. 305
Prasad, B. 146
Predeleanu, M. 378
Rabitz, H. 328, 341
Ramberg, S. E. 298
Raman, V. M. 449
Ramos, J. I. 433
Rangoni, R. 442
Roberts, P. M. 391
Robertson, H. S. 365
Saidi, H. 81
Sayyouh, M. H. 282
Sallam, S. 128, 408
Schagen, I. P. 193
Schönung, B. 101
Sengupta, S. 203
Sheffi, Y. 121
Shieh, L. S. 355
Siraj, F. 37
Sladek, J. 2, 27, 413
Sladek, V. 2, 27, 413
Smith, P. 211
Song, G. 15
Steward, A. P. 169
Stresse, H. 40
Symm, G. T. 226
Tan, C. T. 58
Tanaka, M. 383
Tepavitcharov, A. 179
Thiele, M. 305
Thompson, J. M. T. 157
Toro, E. F. 261
Tralli, A. 75
Tsykin, E. 288
Twizell, E. H. 211
Van Wyk, D. 419
Venturini, W. S. 251
Wegener, K. 81
Wong, K. V. 203
Yamazaki, M. 397
Yao, Z. 15
Yates, R. E. 355
Zannetti, P. 188

SUBJECT INDEX

Aggregation and equilibrium with multinomial logit models 121
Aircraft scheduling so as to minimize community annoyance, Airport noise modelling and 271
Airport noise modelling and aircraft scheduling so as to minimize community annoyance 271
Analysis of three-component soil structures 93
Application of boundary element method to natural convection 383
Approximation of boundary values in the boundary element method 23
Artificial diffusion in the numerical modelling of the advective transport of salinity 116
Asbestos/cement pipes, composite mix design in the production of 425
Bilateral representation of trade for inter-regional models 50
Boundary element formulation for nonlinear applications in geomechanics 251
Boundary element method and application to gear teeth, an implementation of stress discontinuity in the 319
Boundary element method, approximation of boundary values in the 23
Boundary element method in contiguous domains 37
Boundary element method in potential theory, remarks concerning the 40
Boundary element method, some plate bending problems using the 15
Boundary element method to dynamical problems for porous media, further development of 378
Boundary element method to natural convection, an application of 383
Boundary integral equations axisymmetric stress analysis, interior point solutions for 58
Boundary integral equation method applied to shallow membrane shells of positive Gaussian curvature, The 179
Circulation model for the South Biscayne Bay, Florida, numerical three-dimensional free surface 313
Composite mix design in the production of asbestos/cement pipes 425
Contiguous domains, the boundary element method in 37
Coupling of numerical Green's matrix and boundary integral equations for the elastodynamic analysis of inhomogeneous bodies on an elastic half space 397
Cracked bodies, transient elastodynamic three-dimensional problems in 2
Deficient spline function approximation to second order differential equations 408
Deficient spline function approximation to systems of first-order differential equations: part 2, A 128

Design of reinforced structures, Modelling considerations in optimum 146
Differential equations: part 2, A deficient spline function approximation to systems of first-order 128
Differential optimization techniques 419
Diffusivity in a solid slab, A method and a computer program for determining the thermal 169
Dominant-data matching method, model simplification and digital design of multivariable sampled-data control systems via a 355
Dynamical problems for porous media, further development of boundary element method to 378
Elasticity, an analytical contour integration method for handling body forces 000
Elasticity problems, A weak formulation of boundary integral equations, with application to 75
Elastostatic traction problem, New formulation and solution of the plane 226
Eulerian and Lagrangian predictions of particulate two-phase flows: a numerical study 101
Finite-element analysis of dispersion-affected salt water upconing below a pumping well 305
Finite element method, solution of two-phase flow problems in porous media via an alternating direction 391
Finite element modelling of surface waves in a channel 298
Flows: a numerical study, Eulerian and Lagrangian predictions of particulate two-phase 101
Fracture mechanics, A new boundary element technique for solving plane problems of linear elasticity: improved theory and an application to 243
Further development of boundary element method to dynamical problems for porous media 000
Gear teeth, an implementation of stress discontinuity in the boundary element method and application to 319
General method for producing a boundary-fitted, orthogonal curvilinear mesh 231
General model of road traffic accidents, A 133
Geomechanics, Boundary element formulation for nonlinear applications in 251
Graphical analysis of duality and the Kuhn-Tucker conditions in linear programming 238
Green's function solution of the time-dependent solar collector problem 365
Heat transfer, a look at a problem in 449
Helmholtz equation by means of boundary element method, the solution of the non-homogeneous 442
Implementation of stress discontinuity in the boundary element method and application to gear teeth 319
Interior point solutions for boundary integral equations axisymmetric stress analysis 58
Interpolation of the velocity field from data 53
Introduction to nonlinear dynamics, An 157
Kuhn-Tucker conditions in linear programming, Graphical analysis of duality and the 238
Lagrangian particle diffusion with wind shear effects, New Monte Carlo scheme for simulating 188
Linear elasticity: improved theory and an application to fracture mechanics, A new boundary element technique for solving plane problems of 243
Linear programming, Graphical analysis of duality and the Kuhn-Tucker conditions in 238
Logit models, Aggregation and equilibrium with multinomial 121
Mesh, General method for producing a boundary-fitted, orthogonal curvilinear 231
Method and a computer program for determining the thermal diffusivity in a solid slab, A 169
Method of fundamental solutions for problems in potential flow, The 265
Model integration and transparency in APL

Modelling considerations in optimum design of reinforced structures 146
Modelling unknown functions, Software for interpolating and 193
Models, parametric scaling of mathematical 341
Model simplification and digital design of multi-variable sampled-data control systems via a dominant-data matching method 355
Multiple nonlinear regressions derived with choice of free parameters 288
Multivariable sampled-data control systems via a dominant-data matching method, model simplification and digital design of 355
Network design using the characteristic polynomial 351
New boundary element technique for solving plane problems of linear elasticity: improved theory and an application to fracture mechanics, A 243
New formulation and solution of the plane elastostatic traction problem 226
New Monte Carlo scheme for simulating Lagrangian particle diffusion with wind shear effects 188
Nonlinear dynamics, An introduction to 157
Numerical movable-bed models for practical engineering 45
Numerical three-dimensional free surface circulation model for the South Biscayne Bay, Florida 313
Optimization techniques, differential 419
Oscillatory systems, sensitivity analysis of 328
Parametric scaling of mathematical models 341
Partial differential equations, two-dimensional state-space discrete models for hyperbolic 11
Phosphorus loading resulting from urban runoff, Prediction accuracy determination applied to a linear model 81
Porous media, further development of boundary element method to dynamical problems for 378
Potential flow, The method of fundamental solutions for problems in 265
Potential method for domains having external corners, simple layer 62
Potential theory, remarks concerning the boundary element method in 40
Predictive accuracy determination applied to a linear model phosphorus loading resulting from urban runoff 81
Regressions derived with choice of free parameters, Multiple nonlinear 288
Remarks concerning the boundary element method in potential theory 40
Reservoir history matching, A simplified method for petroleum 282
Road traffic accidents, A general model of 133
Salinity, Artificial diffusion in the numerical modelling of the advective transport of 116
Sensitivity analysis of oscillatory systems 328
Shells of positive Gaussian curvature, The boundary integral equation method applied to shallow membrane 179
Simple layer potential method for domains having external corners 62
Simple variational approximation of shallow water type 261
Simplified method for petroleum reservoir history matching, A 282
Software for interpolating and modelling unknown functions 193
Soil structures, Analysis of three-component 93
Soil structures, Variabilities of measured and simulated 89
Solar collector problem, Green's function solution of the time-dependent 365
Solution of the non-homogeneous Helmholtz equation by means of the boundary element method 442
Solution of two-phase flow problems in porous media via an alternating direction finite element method 391
Some plate bending problems using the boundary element method 15
South Biscayne free surface circulation model for the 313
Spline function approximation to second order differential equations, a deficient 413
Stress analysis, interior point solutions for boundary integral equations axisymmetric 58
Symmetrical structures, torsional oscillations in 433
Thermoregulation in a clothed human, A transient model of 211
Torsional oscillations in symmetrical structures 433
Trade for inter-regional models, bilateral representation 50
Transient elastodynamic three-dimensional problems in cracked bodies 2
Transient model of thermoregulation in a clothed human, A 211
Transmission networks, Variational inequality model for the simulation of gas 197
Transport from a landfill, Two-dimensional time-dependent simulation of contaminant 203
Two-dimensional state-space discrete models for hyperbolic partial differential equations 11
Two-dimensional time-dependent simulation of contaminant transport from a landfill 203
Upconing below a pumping well, finite-element analysis of dispersion-affected salt water 305
Urban runoff, Predictive accuracy determination applied to a linear model phosphorus loading resulting from 81
Variabilities of measured and simulated soil structures 89
Variational inequality model for the simulation of gas transmission networks 197
Weak formulation of boundary integral equations, with application to elasticity problems, A 75
Wind shear effects, New Monte Carlo scheme for simulating Lagrangian particle diffusion with 188